

SEQUENCE LISTING

<110> Ni et al.

<120> T1-R Ligand III

<130> PF357C1

<150> 09/030,847

<151> 1998-02-26

<150> 60/039,483

<151> 1997-02-28

<160> 16

<170> PatentIn version 3.1

<210> 1

<211> 1836

<212> DNA

<213> Homo sapiens

<220>

<221> mat_peptide

<222> (103)..(519)

<223>

<220>

<221> sig_peptide

<222> (31)..(102)

<223>

<220>

<221> CDS

<222> (31)..(522)

<223>

<400> 1

gcacgagccg cggccggggt ccgcgcagcg atg ggc ggc cgt cgc ggg cgt tgg	54
Met Gly Gly Arg Arg Gly Arg Trp	
-20	

ggg tgc agg ctg ctc gca ctg ctg cta ctg gtg cct gga ccc ggc ggc	102
Gly Cys Arg Leu Leu Ala Leu Leu Leu Val Pro Gly Pro Gly Gly	
-15	
-10	
-5	
-1	

gcc tct gag atc acc ttc gag ctt cct gac aac gcc aag cag tgc ttc	150
Ala Ser Glu Ile Thr Phe Glu Leu Pro Asp Asn Ala Lys Gln Cys Phe	
1	
5	
10	
15	

tac gag gac atc gct cag ggc acc aag tgc acc ctg gag ttc cag gtg	198
Tyr Glu Asp Ile Ala Gln Gly Thr Lys Cys Thr Leu Glu Phe Gln Val	
20	
25	
30	

att act ggt ggt cac tat gat gta gat tgt cga tta gaa gat cct gat	246
Ile Thr Gly Gly His Tyr Asp Val Asp Cys Arg Leu Glu Asp Pro Asp	
35	
40	
45	

ggt aaa gtg tta tac aaa gag atg aag aaa cag tat gat agt ttt acc	294
Gly Lys Val Leu Tyr Lys Glu Met Lys Lys Gln Tyr Asp Ser Phe Thr	
50	55
60	
ttc aca gcc tcc aaa aat ggg aca tac aaa ttt tgc ttc agc aat gaa	342
Phe Thr Ala Ser Lys Asn Gly Thr Tyr Lys Phe Cys Phe Ser Asn Glu	
65	70
75	80
ttt tct act ttc aca cat aaa act gta tat ttt gat ttt caa gtt gga	390
Phe Ser Thr Phe Thr His Lys Thr Val Tyr Phe Asp Phe Gln Val Gly	
85	90
95	
gaa gac cca cct ttg ttt cct agt gag aac cga gtc agt gct ctt acc	438
Glu Asp Pro Pro Leu Phe Pro Ser Glu Asn Arg Val Ser Ala Leu Thr	
100	105
110	
cag gta aat aaa aaa atc agc aat ata atg ttg gta tat tta aaa gga	486
Gln Val Asn Lys Lys Ile Ser Asn Ile Met Leu Val Tyr Leu Lys Gly	
115	120
125	
gga aaa aag cat aat tta ata tca tgc act aac tga tgagcatgga	532
Gly Lys Lys His Asn Leu Ile Ser Cys Thr Asn	
130	135
attttgagac tgacagtctt taaaatctat cttaattctt acatgttaggc atttcacaga	592
gaacttcaga cttttgtagt gaaaaataat gttgaaagat tttatgaact tttaattgta	652
aagagaaaaga agcattaaaa taaggaggaa gatcactaag gtagaaacat cagtggtaaa	712
agaaggttgg gaaggctgag cagtgttcca atcttctgaa gcattttctt taatccctga	772
aggaatgttgc ctgtcataact caggaggctg gtgttaactgg aagcaaaatg atgcctaaat	832
tagtagataa ataataccat atcatagcct ttataccatt acttagtgtt actcaagctg	892
ctgtaacagt aacttgtgat gtaacttttag gtgaaatatt gaagattaat ggtaagtcat	952
ctcacaaaaaa tagttacaaa agctaaattc agatttatTT tggagacata gagaaagcgt	1012
aaaaaaattta aacccagtga acaactattt ctttaggtgat gaggactgtt ttatTTctag	1072
ttcaaataca gcaaaatcca aaatgcttca aaatccaaaa cttttttta gctccaacct	1132
gatgacacaa gtgaaagatt gttacatctg atctcatgac acatcattga aaatatcata	1192
tacagttgcc ttaaggctgc atgtataagg catatatgaa acataaatga atttcatgtc	1252
tagacctggg ttccatcaca aagatatctc attatgtata tgttagacatt ccaaaatcag	1312
aaaaaaatctg aaattcaaag cacttctggc cccaaacatt ttggataagg gataactcaac	1372
ctgtatggc ttagatcgta tctaaaagtt actcaattag gcatgaaaaaa gaattattta	1432
ccacttatttgc gttaacatct taaactggta tttagtgtt cccagggttc tatTTtagtct	1492
cttggccaaa gtcatggtga aagaaacagc tttaagaatg tgtaaaagcc ttaattcata	1552
aacctgttgt tagaatttagc aagatataatt caaatactct taatTTtaga aatgttctct	1612

ttatTTtaag gtcttgtgtg aaggacccct tgctttgtaa aatgatattt ctttggggcc 1672
attaccttaa cctgtatcca ttccttcatg aattttaact tgtataaggt ggcttgttct 1732
aaaaacctaa gtgggtaaat ataagaaatg aatggtaata aagcagtag tatcataaaa 1792
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1836

<210> 2
<211> 163
<212> PRT
<213> Homo sapiens

<400> 2
Met Gly Gly Arg Arg Gly Arg Trp Gly Cys Arg Leu Leu Ala Leu Leu
-20 -15 -10

Leu Leu Val Pro Gly Pro Gly Gly Ala Ser Glu Ile Thr Phe Glu Leu
-5 -1 1 5

Pro Asp Asn Ala Lys Gln Cys Phe Tyr Glu Asp Ile Ala Gln Gly Thr
10 15 20

Lys Cys Thr Leu Glu Phe Gln Val Ile Thr Gly Gly His Tyr Asp Val
25 30 35 40

Asp Cys Arg Leu Glu Asp Pro Asp Gly Lys Val Leu Tyr Lys Glu Met
45 50 55

Lys Lys Gln Tyr Asp Ser Phe Thr Phe Thr Ala Ser Lys Asn Gly Thr
60 65 70

Tyr Lys Phe Cys Phe Ser Asn Glu Phe Ser Thr Phe Thr His Lys Thr
75 80 85

Val Tyr Phe Asp Phe Gln Val Gly Glu Asp Pro Pro Leu Phe Pro Ser
90 95 100

Glu Asn Arg Val Ser Ala Leu Thr Gln Val Asn Lys Lys Ile Ser Asn
105 110 115 120

Ile Met Leu Val Tyr Leu Lys Gly Gly Lys Lys His Asn Leu Ile Ser
125 130 135

Cys Thr Asn

<210> 3
<211> 1585
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (28) .. (672)
<223>

```

<220>
<221> mat_peptide
<222> (100)..(672)
<223>

<220>
<221> sig_peptide
<222> (28)..(99)
<223>

<400> 3
gcacagcccc gcccgggtcc gcgcagc atg ggc ggc cgt cgc ggg cct tgg ggg 54
Met Gly Gly Arg Arg Gly Pro Trp Gly
-20

tgc agg ctg ctc gca ctg ctg cta ctg gtg cct gga ccc ggc ggc gcc 102
Cys Arg Leu Leu Ala Leu Leu Leu Val Pro Gly Pro Gly Gly Ala
-15 -10 -5 -1 1

tct gag atc acc ttc gag ctt cct gac aac gcc aag cag tgc ttc tac 150
Ser Glu Ile Thr Phe Glu Leu Pro Asp Asn Ala Lys Gln Cys Phe Tyr
5 10 15

gag gac atc gct cag ggc acc aag tgc acc ctg gag ttc cag gtg att 198
Glu Asp Ile Ala Gln Gly Thr Lys Cys Thr Leu Glu Phe Gln Val Ile
20 25 30

act ggt ggt cac tat gat gta gat tgt cga tta gaa gat cct gat ggt 246
Thr Gly Gly His Tyr Asp Val Asp Cys Arg Leu Glu Asp Pro Asp Gly
35 40 45

aaa gtg tta tac aaa gag atg aag aaa cag tat gat agt ttt acc ttc 294
Lys Val Leu Tyr Lys Glu Met Lys Lys Gln Tyr Asp Ser Phe Thr Phe
50 55 60 65

aca gcc tcc aaa aat ggg aca tac aaa ttt tgc ttc agc aat gaa ttt 342
Thr Ala Ser Lys Asn Gly Thr Tyr Lys Phe Cys Phe Ser Asn Glu Phe
70 75 80

tct act ttc aca cat aaa act gta tat ttt gat ttt caa gtt gga gaa 390
Ser Thr Phe Thr His Lys Thr Val Tyr Phe Asp Phe Gln Val Gly Glu
85 90 95

gac cca cct ttg ttt cct agt gag aac cga gtc agt gct ctt acc cag 438
Asp Pro Pro Leu Phe Pro Ser Glu Asn Arg Val Ser Ala Leu Thr Gln
100 105 110

atg gaa tct gcc tgt gtt tca att cac gaa gct ctg aag tct gtc atc 486
Met Glu Ser Ala Cys Val Ser Ile His Glu Ala Leu Lys Ser Val Ile
115 120 125

gat tat cag act cat ttc cgt tta aga gaa gct caa ggc cga agc cga 534
Asp Tyr Gln Thr His Phe Arg Leu Arg Glu Ala Gln Gly Arg Ser Arg
130 135 140 145

gca gag gat cta aat aca aga gtg gcc tat tgg tca gta gga gaa gcc 582
Ala Glu Asp Leu Asn Thr Arg Val Ala Tyr Trp Ser Val Gly Glu Ala
150 155 160

```

ctc att ctt ctg gtg gtt agc ata ggg cag gta ttt ctt ttg aaa agc	630	
Leu Ile Leu Leu Val Val Ser Ile Gly Gln Val Phe Leu Leu Lys Ser		
165	170	175
ttt ttc tca gat aaa aga acc acc aca act cgt gtt gga tca	672	
Phe Phe Ser Asp Lys Arg Thr Thr Thr Arg Val Gly Ser		
180	185	190
taactacgtt ttgagaattt atgcaccatt gccactgtaa tattgctgtc ctctaattaa	732	
tttaggtac tgaagaactt aatattggca acattttaa atccttactc atacacttgt	792	
tgggaggat gtacaatgca tattccaaa ctgtggaaag gacaccttt tttatttgc	852	
aaggtggaaa aactttggaa ctcattttgg gctattcatg ttaaatattc aacaccaatg	912	
atctactctg ttgcagttt tttatatcta ctcttcgcac actaaacttt ggtatttgc	972	
ttcctttaa ccatttaaga ctactttct tatacggtt tgatatttta aaaacttttag	1032	
attnaatgtc tacatgtgtt agggaggaag aaaattgcct tttatttgc aataagaaaa	1092	
ccaaatgtga tgaactgttag cccaaagccct attctgcact gttcagttt atggaggaaa	1152	
aataaatcta ccataggaaat gtttagttat attgatataat catggtaaaa ttgatttctc	1212	
actagcttag aaaaatgtcag acttttgcgtt ttggggttta taatttaaac cagctatgct	1272	
atttttcat aaaggcattt gtagtacaca gaaaaacagt agttcagta gtgtaaaaga	1332	
gtttatacag gccttaata tcagactttg taacaggtt aaatattaca gaaataattt	1392	
aagacactac aatgggggca aatgaaatag gaaaattttt agtgagttac acgtactcat	1452	
tacattttca gtgctttac aaggaaaaaa ggtgatatgt ttaattttaa aattttattt	1512	
ggctagctc ttgcccttat atgactttaa tgtctgtgag tcattcccag cttaaattaa	1572	
caattgttagt att	1585	
<210> 4		
<211> 215		
<212> PRT		
<213> Homo sapiens		
<400> 4		
Met Gly Gly Arg Arg Gly Pro Trp Gly Cys Arg Leu Leu Ala Leu Leu		
-20	-15	-10
Leu Leu Val Pro Gly Pro Gly Gly Ala Ser Glu Ile Thr Phe Glu Leu		
-5	-1	5
Pro Asp Asn Ala Lys Gln Cys Phe Tyr Glu Asp Ile Ala Gln Gly Thr		
10	15	20
Lys Cys Thr Leu Glu Phe Gln Val Ile Thr Gly Gly His Tyr Asp Val		
25	30	35
40		

Asp	Cys	Arg	Leu	Glu	Asp	Pro	Asp	Gly	Lys	Val	Leu	Tyr	Lys	Glu	Met
			45						50					55	
Lys	Lys	Gln	Tyr	Asp	Ser	Phe	Thr	Phe	Thr	Ala	Ser	Lys	Asn	Gly	Thr
			60					65					70		
Tyr	Lys	Phe	Cys	Phe	Ser	Asn	Glu	Phe	Ser	Thr	Phe	Thr	His	Lys	Thr
			75				80					85			
Val	Tyr	Phe	Asp	Phe	Gln	Val	Gly	Glu	Asp	Pro	Pro	Leu	Phe	Pro	Ser
			90				95					100			
Glu	Asn	Arg	Val	Ser	Ala	Leu	Thr	Gln	Met	Glu	Ser	Ala	Cys	Val	Ser
			105				110			115				120	
Ile	His	Glu	Ala	Leu	Lys	Ser	Val	Ile	Asp	Tyr	Gln	Thr	His	Phe	Arg
			125					130					135		
Leu	Arg	Glu	Ala	Gln	Gly	Arg	Ser	Arg	Ala	Glu	Asp	Leu	Asn	Thr	Arg
			140				145					150			
Val	Ala	Tyr	Trp	Ser	Val	Gly	Glu	Ala	Leu	Ile	Leu	Leu	Val	Val	Ser
			155				160					165			
Ile	Gly	Gln	Val	Phe	Leu	Leu	Lys	Ser	Phe	Phe	Ser	Asp	Lys	Arg	Thr
			170				175					180			
Thr	Thr	Thr	Arg	Val	Gly	Ser									
			185			190									

<210> 5
<211> 227
<212> PRT
<213> Homo sapiens

<400>	5														
Met	Met	Ala	Ala	Gly	Ala	Ala	Leu	Ala	Leu	Ala	Leu	Trp	Leu	Leu	Met
		1					5					10			15
Pro	Pro	Val	Glu	Val	Gly	Gly	Ala	Gly	Pro	Pro	Pro	Ile	Gln	Asp	Gly
			20					25					30		
Glu	Phe	Thr	Phe	Leu	Leu	Pro	Ala	Gly	Arg	Lys	Gln	Cys	Phe	Tyr	Gln
				35				40					45		
Ser	Ala	Pro	Ala	Asn	Ala	Ser	Leu	Glu	Thr	Glu	Tyr	Gln	Val	Ile	Gly
				50				55					60		
Gly	Ala	Gly	Leu	Asp	Val	Asp	Phe	Thr	Leu	Glu	Ser	Pro	Gln	Gly	Val
			65				70			75			80		
Leu	Leu	Val	Ser	Glu	Ser	Arg	Lys	Ala	Asp	Gly	Val	His	Thr	Val	Glu
				85					90				95		
Pro	Thr	Glu	Ala	Gly	Asp	Tyr	Lys	Leu	Cys	Phe	Asp	Asn	Ser	Phe	Ser
			100					105					110		

Thr Ile Ser Glu Lys Leu Val Phe Phe Glu Leu Ile Phe Asp Ser Leu
115 120 125

Gln Asp Asp Glu Glu Val Glu Gly Trp Ala Glu Ala Val Glu Pro Glu
130 135 140

Glu Met Leu Asp Val Lys Met Glu Asp Ile Lys Glu Ser Ile Glu Thr
145 150 155 160

Met Arg Thr Arg Leu Glu Arg Ser Ile Gln Met Leu Thr Leu Leu Arg
165 170 175

Ala Phe Glu Ala Arg Asp Arg Asn Leu Gln Glu Gly Asn Leu Glu Arg
180 185 190

Val Asn Phe Trp Ser Ala Val Asn Val Ala Val Leu Leu Leu Val Ala
195 200 205

Val Leu Gln Val Cys Thr Leu Lys Arg Phe Phe Gln Asp Lys Arg Pro
210 215 220

Val Pro Thr
225

<210> 6

<211> 312

<212> DNA

<213> Homo sapiens

<400> 6

ggcaagccgg ccggggtccg gcagctgggc ggccgtcgcg ggcctgtggg gtgcaggctg 60

ctcgcaactgc tgcactggtg cctggacccg gccccgtcttt ctaaatcacc ttgcaggctt 120

cctggacaac gcaagcagtg cttctacgag gacatcgctc agggcaccaa gtgcaccctg 180

ggagttccag tgattactgg tggtaactga tatgttagatt gtgcattttaga agatccgtat 240

ggtaaaagtgt tatacaaaga gattagtaac agttggtaat ttttacctta cagttccaa 300

aaagggggac at 312

<210> 7

<211> 120

<212> DNA

<213> Homo sapiens

<400> 7

acacataaaaa ctgtatattt tgatttaag ttggagaaga cccacctttt ttccctagtga 60

gaaccgagta gtgctttac ccagatggaa tcgcctgtgt ttcaattcac gaggctctga 120

<210> 8

<211> 367

<212> DNA

<213> Homo sapiens

<400> 8
tttctttga aaagctttt ctcagataaa agaaccacca caactcgtgt tggatcataa 60
ctacgtttg agaattgatg caccattgcc actgtaatat tgctgcctc taattaattt 120
taggtactga agaacttaat attggcaaca ttttaaatc cttactcata cacttgg 180
gagggatgta caatgcatac tcccaaactg tggaaaggac acctttttt atttgtaaag 240
gtggaaaact ttggaactca ttttgggcta ttcatgttaa atattcaaca ccaatgatct 300
actctgttcg cagttgtta tatctactct tcggacacta aacttgtatt ttggccttt 360
aacctt 367

<210> 9
<211> 496
<212> DNA
<213> Homo sapiens

<400> 9
aattcgac gaggtgatat gtttaatttt aacattttaa ttggctagct cttgccctta 60
tatgacttta atgtctgtga gtcattccca gcttaaatta acaattgtta gtattagtct 120
cacacataag tgccatacat tttatcctca tggatgtgat gcactgaaaa gttagttgct 180
ctccctttttt cttttttttgcgtgcatat tttatcctcg tagttctgg ttagctaccc 240
taaagtgatt taaaaattta gaatgcttg tgtttcctat ttggtaatct tcattgactt 300
ttcttttagtt aatgagtatt aaatggtgca tattcctgttag actatagggt tacaatggtt 360
gcaccttata acttggatta gatggcgatt gaatagggtt ggtcccagtt tatccgttgg 420
atccaagtgg ttccaaattt ttgggttaag gcttccgcgg tttttttta gcaccgtttt 480
ccgggccttc ccccaa 496

<210> 10
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> Contains an NcoI restriction site

<400> 10
cgccccatgga gatcaccttc gagcttc 27

<210> 11
<211> 27
<212> DNA
<213> Artificial sequence

<220>
<223> Contains a HindIII restriction site

<400> 11	
cgcaagcttg aaatgcctac atgtaag	27
<210> 12	
<211> 27	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Contains a HindIII restriction site	
<400> 12	
cgcaagcttc agcaatatta cagtggc	27
<210> 13	
<211> 38	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Contains a BamHI restriction site	
<400> 13	
cgcggatccg ccatcatggg cggccgtcgc gggcgttg	38
<210> 14	
<211> 27	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Contains an Asp718 restriction site	
<400> 14	
cgcgttaccg aaatgcctac atgtaag	27
<210> 15	
<211> 27	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Contains an Asp718 restriction site	
<400> 15	
cgcgttaccc agcaatatta cagtggc	27
<210> 16	
<211> 24	
<212> DNA	
<213> Artificial sequence	

<220>

<223> Synthetic oligonucleotide probe containing an NF-kappa B
enhancer element

<400> 16

tgacagaggg actttccgag agga

24